

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P747557

Luminaire Tested: LD4D40BD010-EU4DR3040509030-4LBDP1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P747557  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D40BD010-EU4DR3040509030-4LBDP1MW  
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3277.1 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

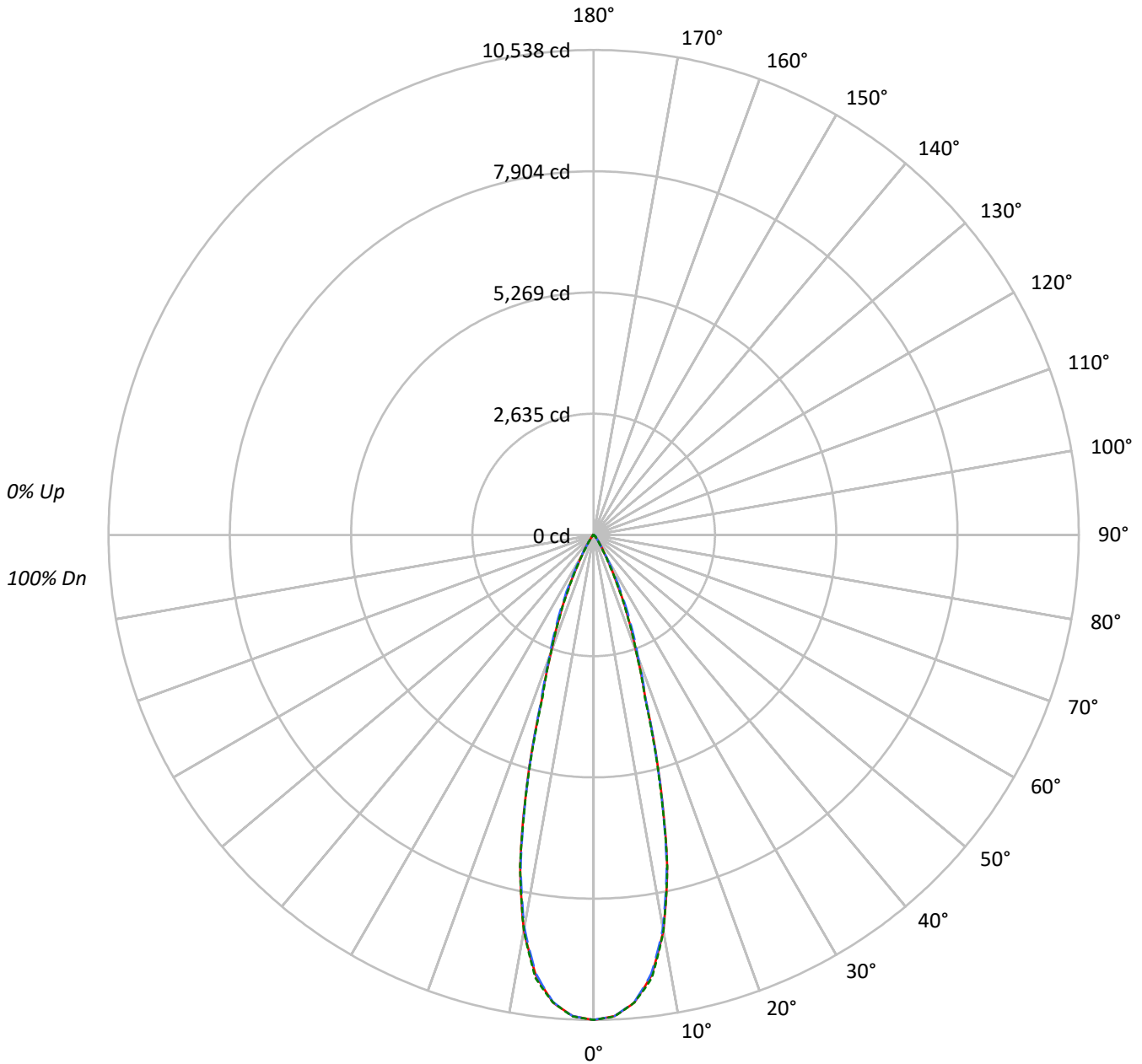
Input Watts (W): 35.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	806576	806576	806576
5°	783418	782503	783456
10°	678563	673776	678400
15°	442726	440349	438138
20°	220151	228410	219849
25°	110891	125054	108619
30°	44404	48382	38686
35°	20595	19726	16530
40°	8893	9872	8373
45°	6268	7783	6333
50°	2155	5668	2274
55°	1241	2349	1308
60°	873	1026	873
65°	561	561	561
70°	358	224	358
75°	0	148	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 7783 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	926.6	28.3
10°-20°	1492.3	45.5
20°-30°	644.9	19.7
30°-40°	147.0	4.5
40°-50°	50.5	1.5
50°-60°	12.3	0.4
60°-70°	3.2	0.1
70°-80°	0.3	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3063.8	93.5
0°-40°	3210.8	98.0
0°-60°	3273.6	99.9
0°-90°	3277.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3277.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10538	10538	10538	10538	10538	
5°	10196	10186	10184	10205	10196	927
15°	5587	5520	5557	5539	5529	1496
25°	1313	1363	1481	1328	1286	629
35°	220	225	211	210	177	149
45°	58	72	72	72	58	41
55°	9	10	18	10	10	9
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10537.5	10537.5	10537.5	10537.5	10537.5
2.5°	10467.6	10460.4	10464.5	10469.7	10471.8
5°	10196.0	10186.2	10184.1	10205.3	10196.5
7.5°	9648.1	9634.2	9613.0	9661.1	9706.1
10°	8730.4	8714.8	8668.8	8691.6	8728.3
12.5°	7375.4	7325.2	7324.2	7396.6	7386.8
15°	5586.9	5519.7	5556.9	5538.8	5529.0
17.5°	3757.0	3731.2	3780.8	3765.8	3701.2
20°	2702.7	2709.4	2804.1	2756.5	2699.0
22.5°	1972.2	1996.5	2108.7	1986.1	1941.1
25°	1313.0	1362.7	1480.7	1328.0	1286.1
27.5°	807.6	830.4	949.9	797.2	774.5
30°	502.4	491.0	547.4	469.8	437.7
32.5°	329.6	315.1	333.2	299.0	273.2
35°	220.4	225.0	211.1	209.5	176.9
37.5°	137.6	158.3	139.7	149.0	113.8
40°	89.0	114.9	98.8	109.2	83.8
42.5°	72.9	88.5	81.2	86.4	74.5
45°	57.9	71.9	71.9	71.9	58.5
47.5°	32.1	48.1	61.6	49.1	34.1
50°	18.1	24.3	47.6	25.4	19.1
52.5°	12.4	14.0	32.6	14.5	12.9
55°	9.3	9.8	17.6	10.3	9.8
57.5°	7.2	7.8	9.3	7.8	7.2
60°	5.7	5.7	6.7	6.2	5.7
62.5°	4.1	4.1	4.7	4.1	4.1
65°	3.1	3.1	3.1	3.1	3.1
67.5°	1.6	2.1	2.1	2.1	2.1
70°	1.6	1.0	1.0	1.0	1.6
72.5°	1.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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(END OF REPORT)